Calipers

SERIES 500 - ABSOLUTE Digimatic Caliper

- The ZERO/ABS button allows the display to be Zero-Set at any slider position along the scale for comparison measurements. This button will also allow return to the absolute (ABS) mode and display of the true position from the origin (usually jaws closed point).
- Large and clear LCD readout.
- Smooth slider movement makes for comfortable operation.
- 20,000 hours battery life.
- Can measure outside and inside dimensions, depth, and steps.
- Carbide-tipped jaw calipers give the longest life when measuring rough finished parts, castings, grinding wheels, etc.
- Data output function allows integration into statistical process control and measurement systems.



Technical Data

 Resolution:
 0.01 mm (.0005")

 Repeatability:
 0.01 mm

 Scale type:
 ABSOLUTE electrostatic linear encoder

 Max. response speed:
 Unlimited

 Battery:
 SR44 (1 pc.), 938882

 Battery life:
 Approx. 5 years under normal use (20,000 hours for continuous use)

Functions

ABSOLUTE system measurement: After power is turned ON, measurement can be started without zero-setting if origin-setting was previously performed. The ABS (absolute) origin position can be changed by the ORIGIN button.

Incremental measurement:

Display can be set to zero at any arbitrary position for comparative measurements.

Scale contamination detection:

Contamination on the surface of the scale is detected and an error message (ErrC) is displayed.

Low-voltage alert:

If the battery voltage becomes low, a "B" appears in the display to alert the user before measurement is no longer possible. A battery change advisory alert precedes this alert. Data output:

Models equipped with this function have an output port for transferring measurement data to a Statistical Process Control (SPC) system.

Data hold:

By using the data hold unit (option), the displayed value can be held. This cannot be used with the data output function.



Specifications Inch/Metric

Code No.	Range	Accuracy*	Remarks	Price
With SPC data	output			
500-171-30	0-150 mm (0-6")	±0.02 mm (.001")	_	
500-174-30			Carbide-tipped jaws for outside measurement	
500-175-30			Carbide-tipped jaws for outside and inside measurement	
500-172-30	0-200 mm (0-8")		_	
500-176-30			Carbide-tipped jaws for outside measurement	
500-177-30			Carbide-tipped jaws for outside and inside measurement	
500-173	0-300 mm (0-12")	±0.03 mm (.0015")	_	
500-167-30			Carbide-tipped jaws for outside measurement	
500-168-30			Carbide-tipped jaws for outside and inside measurement	
Without SPC d	lata output			
500-196-30	0-150 mm (0-6")	±0.02 mm (.001")	—	
500-159-30			Carbide-tipped jaws for outside measurement	
500-160-30			Carbide-tipped jaws for outside and inside measurement	
500-197-30	0-200 mm (0-8")		_	
500-163-30			Carbide-tipped jaws for outside measurement	
500-164-30			Carbide-tipped jaws for outside and inside measurement	
500-193-30	0-300 mm (0-12")	±0.03 mm (.0015")	_	
500-165-30			Carbide-tipped jaws for outside measurement	
500-166-30			Carbide-tipped jaws for outside and inside measurement	

* Excluding quantizing error.



Optional Accessories*

Code No.	Description	Price		
264-621	1-621 U-WAVE-TC transmission unit			
959143	Data hold unit			
959149	SPC data cable with pushbutton (1 m)			
959150	59150 SPC data cable with pushbutton (2 m)			
02AZF300	02AZF300 U-WAVE-TC connection unit			
06AFM380C	USB input tool direct USB-ITN-C (2 m)			
* Only for my data with data autout for attack				

* Only for models with data output function.





U-WAVE transmitter with buzzer fitted to a Digimatic caliper.



Ω

Carbide-tipped jaws for outside measurement.



B

16.5

20

22

A

21

24.5

27.5

С

233

290

404

D

40

50

64

Е

16

20

D

Carbide-tipped jaws for inside measurement.

Range

0-150 mm

0-200 mm

0-300 mm

comfortable operation.

Smooth slider movement makes for



D-08

Unit: mm

slider movement. High quality guide surface finish for smoreblutte Digimatic caliper



Dimensions